AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- (Currently Amended) A method of manufacturing a semiconductor device, the method comprising:
- (a) sequentially stacking a first semiconductor layer, a mask layer, and a metal layer on a substrate;
- (b) anodizing the metal layer to transform the metal layer into a metal oxide layer including a plurality of nanoholes;
- (c) etching the mask layer using the metal oxide layer as an etch mask until the nanoholes are extended to the surface of the first semiconductor layer;
 - (d) removing the metal oxide layer by etching; and
- (e) depositing a second semiconductor layer on the mask layer and the first semiconductor layer; and
- (f) regrowing said second semiconductor layer present in the mask layer having the nanoholes.
- 2. (Original) The method of claim 1, wherein each of the holes has a diameter of about 10 nm to 500 nm.

- 3. (Original) The method of claim 1, wherein each of the holes occupies less than 50% of the entire area.
- 4. (Original) The method of claim 1, wherein the mask layer is formed to a thickness of about 50 nm to 500 nm.
- 5. (Original) The method of claim 1, wherein the first semiconductor layer has a lattice constant which is different from the lattice constant of the substrate.
- 6. (Original) The method of claim 1, wherein the substrate is formed of one of an inorganic crystal including sapphire, Si, SiC, MaAl₂O₄, NdGaO₃, LiGaO₂, ZnO, or MaO, a III-V group compound semiconductor including GaP or GaAs, and a III group nitride semiconductor including GaN.
- 7. (Original) The method of claim 1, wherein the first semiconductor layer and the second semiconductor layer are formed of nitride semiconductors.
- 8. (Original) The method of claim 7, wherein the nitride semiconductor is one of GaN, InGaN, AlGaN, AllnGan, and InGaNAs.
- 9. (Original) The method of claim 1, wherein the mask layer is formed of one of a polycrystalline semiconductor, a dielectric material, and a metal.

- 10. (Original) The method of claim 9, wherein the polycrystalline semiconductor layer is one of polysilicon and polycrystalline nitride.
- 11. (Currently Amended) The method of claim 9 1, wherein the dielectric material mask layer is one of silicon oxide, titanium oxide, and zirconium oxide.
- 12. (Currently Amended) The method of claim 9 1, wherein the mask layer is a metal that has a melting point of 1200 °C or higher.
- 13. (Original) The method of claim 12, wherein the metal is one of titanium and tungsten.
- 14. (Original) The method of claim 1, wherein the metal layer is formed of aluminum.
- 15. (Original) The method of claim 1, wherein in step (c), the etching process is a dry etch process.
- 16. (Original) The method of claim 1, wherein in step (e), electrical charge storing material is further deposited in the nanoholes.

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17. (New) The method of claim 1, wherein in step (f), said second semiconductor layer is regrown until said mask layer is covered by said second semiconductor layer.